# THE LIGHT OF ASIA

By Frank G. Carpenter.

Irawadi River-In the Oil Fields- which yield 100 and more barrels the oil has been won. A part of The Ruby Mines Jewels More Val- many less. able Than Diamonds - Burmese the Chinese Markets.

penter.) SYRIAM, Burma, 1910.

fineries of the Burma Oil Company.

At present the oil trusts of the world are fighting for Asia. Our Standard Oil Company has practically monopolized Japan, Korea and a large part of China. It has its stations on every river and its agents in every large city. The Russian petroleum companies are furnishing the illumination for Siberia and the lands east and south of the Caspian sea, while the Dutch East Indies, Siam and a large part of China are supplied by the oil fields of Sumatra and Borneo. Down here in Burma the people are using oil from the wells along the Irawadi river. They have monopolized Burma, and are pushing their trade among the millions of India. The Standard Crowded Out.

These people have crowded the Standard Oil Company out of their market. It tried to come in and asked the government's permission to build its own tanks at the mouth of the river. This was refused, and as a All along the west coast of the Pa- him alone, the same families produceific the storage tanks of the Stand- ing it. ard Oil Company are to be seen. They are among the big features of every in the interior of China.

Here on the Irawadi there are s'milar tanks, but they belong to the British and are the property of the Burma Oil Company. I can see at least two score or so from where I am writing. Each tank will hold a million gallons of oil, and altogether they contain a supply which could furnish one gallon to every man, woman and child in the United States

and leave some to spare. Burma's Oil Flect.

lons each for bringing the crude pe- little more than fair wages. troleum down the Irawadi from the within a few months they will be hundred square miles. running into the refineries here. At first the pipes were laid on the surface of the ground, but they wire affected by the changes of temperature, and are now being buried.

An East Indian Monopoly.

Burma has the third largest o'l trust of the world. The Standard comes first, then Russia, and after that Burma. The output of the Burmese company is now about 150,000,000 gallons per annum and it sells for

something like \$3,000,000. This is only one-eightieth of the output of the Standard, and the value equals only one-thirtieth that of the United States product. The oil business here, however, as far as modern methods are concerned, is only in its infancy, and the possibilities are enormous. It is just twenty-three years since the first oil wells were drilled, although the people had been using oil gathered in other ways for a generation before. It was along back in 1887 that the American system of getting o'l was introduced, and now the fields are spotted with derricks. Americans have been brought in to superintend the sinking of the wells, and seventy such men are now so employed at \$5 per day.

In the earlier stages of the drilling the oil was found at a depth of 500 feet, but recent wells have gone down several thousand feet, and many of those now producing are one or two thousand feet deep. There are but few flowing wells and the average capacity is far under that of the Uni-

A Visit to Its Great Refineries on the ted States. We have many wells carried from boiler to boiler, until all The World's First Petroleum Trust daily. The average well in Burma what is left is turned into wax, and Making Wax Candles for Buddha- yields about fourteen barrels, and

Since the beginning of the drilling Jade and How It Is Quarried for the production has steadily increased. In 1890 it was only 4,400,000 gallens. (Copyright, 1910, by Frank G. Car- Eight years later it was 20,000,009. and in 1902 it rose to 55,000,000. The can burn a candle before a shrine following years the output was 30 .-Syriam promises to become the real 000,000 more, and in 1908 the oil light of Asia. The Burmans are Bud- raised approximated 150,000,000 galdhists and they worship the prophet lons. Oil is now found on the iswhom Edwin Arnold has called the lands off the coast of this country round, tapering cylinders six and a light of the continent. In this awak- and new fields are being discovered half feet tall and as thick as an eleening of Asia in the twentieth cen- in the hills of the interior. So far phant's leg. Such a candle brings tury they want a material rather than the most of the product comes from a spiritual light, and for that they two parallel ravines, the wells being are looking to Syriam. The place lies sunk along the cliffs on both sides on the Irawadi between Rangoon and and in the space between. The most the sea and it is the site of the re- of the oil seems to lie below the margins of the ravines.

### The World's First Oil Trust.

It is strange to find that the first oil trust of the world was founded in faraway Asia. The petroleum business of Burma has always been a monopoly. It was in existence long before our Pennsylvania oil was discovered, being then in the hands of men, women and boys are employed, twenty-four families who belonged to two villages located in the Yenangyang oil country, from which most of the petroleum still comes. Generations ago these families had taken possession of the oil fields, and had so fixed it that no one outside their own members could dig for petroleum or own an oil well. The families were nown as Yoya, and their chiefs were fore leaving took a ride on a big called Twinsayo. If a family had no automobile in and out among the descendants it could sell only to the other members of the combined families; so that the corporation was decidedly close.

The Yenangyang had their own

Among the Miners.

I understand that many of those large port, and connected with them families are still taking out oil as their are great factories where tin cans are forefathers did. Some have been made and the petroleum is put up for bought out by the trust, but others shipment over the country. The oil still compete, working the old way. is pumped into tank steamers at Sin Their oil comes from wells which Francisco and pumped out into tanks are seldom more than 250 feet deep. which hold tens of thousands of bar- They break the rock by dropping a rels at Shanghai, Tientsin and even pointed lump of iron, weighing about at Hankow on the Yangtse Liang. 150 pounds, upon it again and again, the latter port being six hundred miles and then carry the debris out in buckets.

When the oil strata is reached they wait for the well to fill and then raise the petroleum in buckets, which are filled by men lowered in rope slings to the bottom. There is much stay below but a few minutes. In orthey blindfold their eyes before descending, tearing off the bandages more than \$100,000. when they reach the bottom, thus petroleum to other parts of the world, product is sold to the trust, and at price will increase with the size. A

The Burmese Oil Company has to interior, and pipe lines are now being istration and there is little chance for laid from them to Syriam. The pipes outside competition. The best of its

Burma's Oil Refineries. During my stav at Syriam I have gone through the refineries. managers claim that they are the largest of the world, saying that they surpass any owned by the Standard Oil Company, which does its business in smaller institutions widely scattered throughout the United States. The works here at Syriam cover a hundred acres or more. They are situated on the banks of the Irawadi, about sixteen miles from its mouth. The river is full of salt and it has built up a great sand bank just opposite the landing so that ships cannot come close except at high tide. The silt is so great that the little lake, inside the works, used as a water supply, has to be dug out to a depth of six or eight feet every year. I saw hundreds of coolies excavating this now dry lake. They were taking out dirt which looked like cement, and river that jetties similar to those we

will probably be put in. I went through the works with the superintendent, a Scotchman named ing the refineries, although he al-

ous furnaces are kept hot with oil fires and that the boilers above them have pipes to catch the vapor as the oil boils. Refining pertoleum is much like distilling whiskey. The crude oil is heated to a vapor which flows off into the cold pipes. As it strikes them th's condemnses and runs off as pure oil.

Wax Candles for Buddha.

In the meantime, the residue is in the end there is a product which is made into a coke superior to that from coal. The wax is used chiefly for candles, which are made here in great quantities to be used in the wership of Buddha. Any one v.ho acquires merit, and the bigger the candle the greater the merit. For this reason, the candles are of all sizes, from wax matches to great, about \$10, or 30 rupees. It will burn fifteen hours, and if consumed at a shrine will add much to one's chance of reaching Nirvana.

### Machinery and Labor.

The machinery of Syriam is up to date. It is nearly all English, although there are some Yankee inventions employed. The institution has can-making factories, and the oil is run into the cans on the premises.

The labor of the mills is almost altogether East Indian. About 6,000 the children ranging in age from ten years upward. I saw little Hindus who should have been in school packing candles, carrying heavy loads and doing all sorts of work. They labored with all their might, and their wages were a few cents a day. We rode about through the works on a trolley car pushed by four Hindus, and begreat tanks where the oil is stored. There are something like forty or more of these tanks, each marked 1.000,000 gallons.

This oil trust has other refineries result our oil must be shipped here rules as to the digging and sale of at Dunneedaw, on the opposite bank in tin cases. This makes it too the oil. These continued in force un- of the Irawadi, and it is steadily addcostly in competition with the native til a little over half a century ago ing to its works. It makes its own product, and it cannot inaugurate the when King Mindon, Thibaw's great barges and has almost as many demachinery of distribution such as it predecessor, introduced the monopoly partments as the Standard. I underhas in other parts of the far east. system by which the oil was sold to stand that the oil prices are rising and that the value of the field has quadrupled in the last year or so. The whole country is now being prospected, with a view to finding new oil ter-

Where Rubies Come From.

Next to coal oil, the biggest monopoly in Burma is in rubies. This yellow and green, as well as garnets county produces the finest of such and spinels. stones and furnishes the most of the world's supply. The industry is in the hands of the Burma Ruby Mines Company, which is operating in the Mogok valley, about ninety miles from Mandalay. There is a region there 4,000 feet above the sea, covering from fifty to one hundred square miles, which has produced more and better rubies than any other place upon earth. At times it yields as much as gas in the wells, and the miners can a half million dollars' worth of rubies a year, and about ten years ago a der to make the most of their time, single stone was found weighing seventy-seven carats, which sold for

The fine ruby is more valuable than keeping their eyes in focus for im- a diamond of the same weight. It The Burma Oil Company has its mediate work. They use hats of palm is estimated that one the color of own fleet of tank steamers. These leaves to protect their heads from the a pigeon's blood weighing five carats have a capacity of 500,000 gallons stones and earth which fall upon them will sell for ten times the value of each, and are intended for shipping from the sides of the shafts. Their a five-carat diamond, and that the It has also oil barges of million gal- such rates that they can make but ruby which weighed eleven carats was recently sold in England for \$35,-000, whereas a diamond of that size native oil fields up country. These pay a royalty to the government, but would not bring more than \$5,000. are situated about 270 miles in the it is largely protected by the admin- The largest ruby known is one which came from Tibet. It weighed 2,000 carats, but it was not of the first qualare already as far as Rangoon, and present oil fields cover only about one ity. Some of the best stones of this kind are owned by native Indian rajahs, who consider them among the most beautiful of jewels.

The demand for rubies is greatly affected by the times. The panis of 1907 caused a slump in the market. All sorts of precious stones went down and for months the London demand for Burman rub'es entirely ceased. The company then curtailed its production by stopping night work, and it cut the wages of the men from 32 to 24 cents a day. In 1903 no dividends were declared. The times are now better and all the mines are again working.

In the Mogok Mines.

present year will be large. The mo- worth nothing and tons which cannopoly has introduced modern metho not be worked by the poor tools of ods. Its pumping machinery is now the natives. The mining is exceedworked by waterpower, and the same ingly primitive. The rocks are power generates and stores electric- cracked by building fires upon them ity, so that the mills work day and They are then broken apart by crow night. Much of the machinery is bars and wedges and shaped up with carrying it away in baskets on their similar to that used in the diamond hammers into the sizes fit for transheads. The deposits of the Irawadi mines of South Africa. The stones portation. The average export value are so rapidly filling the bed of the are run over pulsators, which rep- of the stone is about 60 cents a pound, arate the heavier gravel from the that which is annually shipped down have at the mouth of the Mississippi lighter. In taking out the rubies the the Irawadi and by Rangoon to China sorting is done by foreigners, and the selling for something like \$200,000. stones are classified by them. The best go to London, which is the chief Bishop. I had my camera with me, ruby market, while those of a lower but he objected to my photograph- grade are auctioned off to the lower dealers about the mines. The latter lowed me to take snapshots of the are great gamblers, and will run up laborers and the scenes outside the the prices if they think a stone may have a valuable center. Among the I shall not attempt to describe the rubies are found spinels, stones which processes, except to say that enorm- look much like the true ruby, but

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COLUMBIA, SOUTH CAROLINA, TAKES THE NEW METHOD OF MUNICIPAL MANAGEMENT.

Columbia, S. C., April 2.-By a majority of 5 to 1. Columbia today adopted the commission form of gov-

To-day's election was the culmination of a campaign begun by a local newspaper two years ago. City Council opposed the change,

The new form has all the essential features of the Des Moines and Council Bluff plans.

There are a mayor and four salaries commissioners, all elected at large. They serve four years.

There is the initiative, the referendum and the recall.

which are not. The jewels are tested by a glass through which the ruby shows two different colors if viewed from different directions, whereas the spinel and garnet show but one. if rubies are found in a matrix in the rocks, and also in the clay. Connected with them are often sapphires, blue,

Jade for the Chinese.

Next to the ruby, the jade stones of Burma are of great value. They are mined in the northern part of the country and are brought to Bhame, on the Irawadi above Mandalay, and are there sold to the Chinese. The Chinese prize jade almost as highly as pearls, rubies or diamonds. They look upon the stone as emblematic of most of the virtues, and use it much as we use the term pure gold. A fine girl is a jade girl, a beautiful hand a jade hand and a jade foot is one which is always on time. Nearly every well-to-do Chinese girl has jade earrings and bracelets and many have jade hair pins and brooches. In Burma jade is often used for ear plugs as well as for rings and other jewelry.

The jade found in northern Burma is of a beautiful green, which is greatly desired. The stone has always been regarded as the property of a tribe known as the Kachins; and its right to mining it has never been called in question by the native kings. The amount now produced sells for several hundred thousand dollars a year and in weightg it aggregates something like one hundred and fifty tons. The mining is still done by natives, but it is under a lessee, who collects the government duty of 33 1-2 per cent on all taken out. How Jade is Quarried.

Mining jade is more like quarrying than anything else. Some of the stones, and often the best, are obtained as pebbles, but there are mines where the jade rock lies in open quarries. The stones here are of different grades, varying in quality. Some of the smaller pieces are worth their weight in gold, and little bits fit for a ring setting will sell in China for a hundred dollars or more. On the I understand the output of the other hand, there are enormous blocks

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